

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P246378

Luminaire Tested: **LSR8B10D010 EC8B109727 8LBN0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246378
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201749)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B10D010 EC8B109727 8LBN0B
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 1887 (1 lamp)
Luminaire Lumens: 471.0 lumens
Efficiency: 25.0%
Efficacy: 46.2 lumens/watt
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.77
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

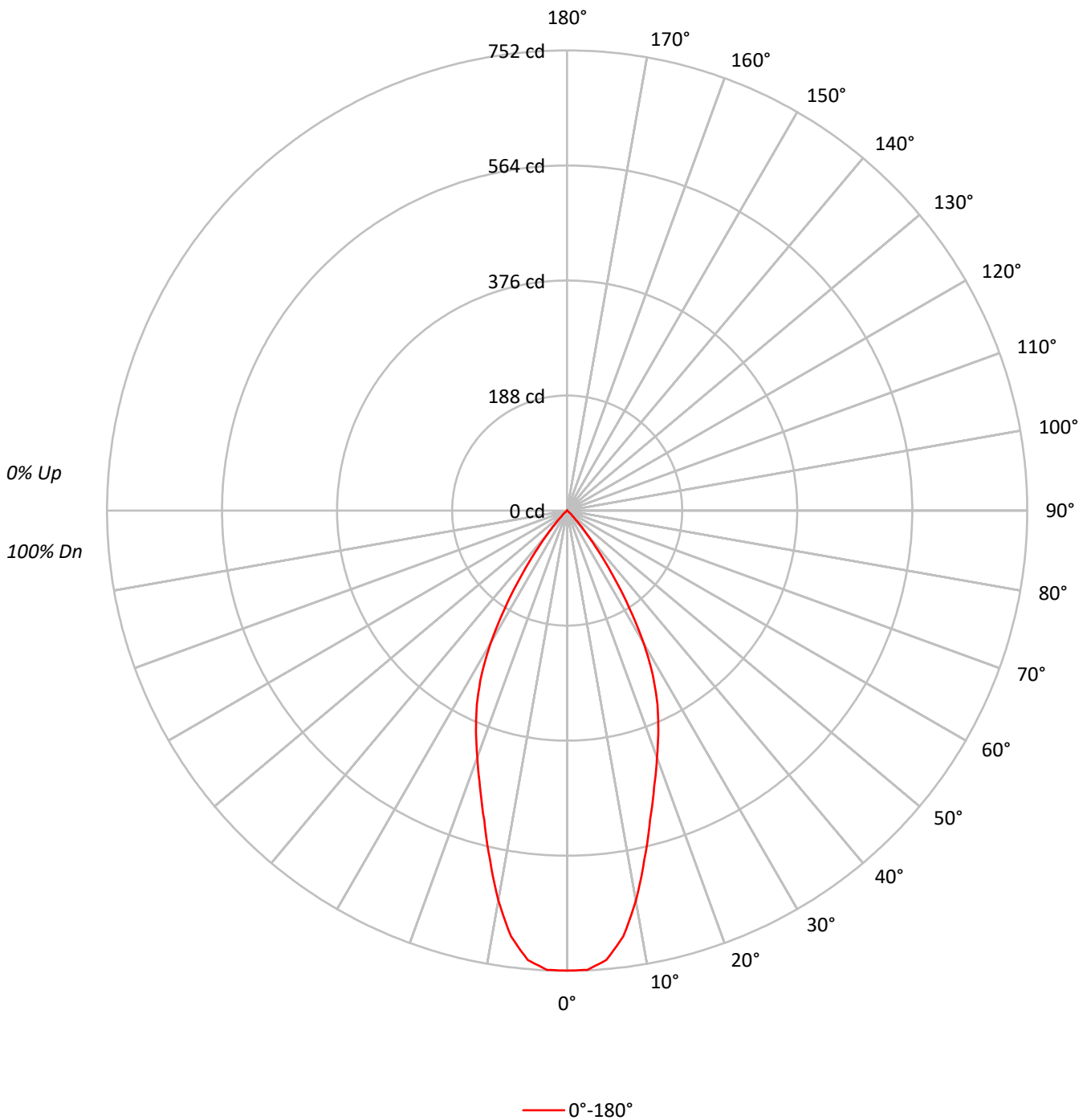
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	30	30	30	30	29	29	29	29	28	28	28	27	27	27	25	25	25	25
1	28	28	27	27	28	27	27	26	26	26	25	25	25	25	24	24	24	24
2	27	26	25	24	27	26	25	24	25	24	24	24	24	23	23	23	23	22
3	26	24	23	22	25	24	23	22	23	23	22	23	22	22	22	22	21	21
4	25	23	22	21	24	23	22	21	22	21	20	22	21	20	21	21	20	20
5	24	22	20	19	23	21	20	19	21	20	19	21	20	19	20	19	19	18
6	23	21	19	18	22	20	19	18	20	19	18	20	19	18	19	18	18	17
7	22	19	18	17	21	19	18	17	19	18	17	19	18	17	18	17	17	16
8	21	18	17	16	20	18	17	16	18	17	16	18	17	16	18	17	16	16
9	20	17	16	15	19	17	16	15	17	16	15	17	16	15	17	16	15	15
10	19	17	15	14	19	17	15	14	16	15	14	16	15	14	16	15	14	14

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	23183
5°	22816
10°	20268
15°	16725
20°	14081
25°	11878
30°	8898
35°	5033
40°	1989
45°	532
50°	106
55°	0
60°	12
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	67.4	14.3	3.6	0°	752	
10°-20°	147.0	31.2	7.8	5°	737	67
20°-30°	157.5	33.4	8.3	15°	524	147
30°-40°	85.4	18.1	4.5	25°	349	157
40°-50°	13.3	2.8	0.7	35°	134	85
50°-60°	0.3	0.1	0.0	45°	12	13
60°-70°	0.1	0.0	0.0	55°	0	0
70°-80°	0.0	0.0	0.0	65°	0	0
80°-90°	0.0	0.0	0.0	75°	0	0
90°-100°	0.0	0.0	0.0	85°	0	0
100°-110°	0.0	0.0	0.0	90°	0	0
110°-120°	0.0	0.0	0.0	95°	0	0
120°-130°	0.0	0.0	0.0	105°	0	0
130°-140°	0.0	0.0	0.0	115°	0	0
140°-150°	0.0	0.0	0.0	125°	0	0
150°-160°	0.0	0.0	0.0	135°	0	0
160°-170°	0.0	0.0	0.0	145°	0	0
170°-180°	0.0	0.0	0.0	155°	0	0
0°-30°	371.9	79.0	19.7	165°	0	0
0°-40°	457.3	97.1	24.2	175°	0	0
0°-60°	470.9	100.0	25.0	180°	0	0
0°-90°	471.0	100.0	25.0			
90°-120°	0.0	0.0	0.0			
90°-150°	0.0	0.0	0.0			
90°-180°	0.0	0.0	0.0			
0°-180°	471.0	100.0	25.0			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	751.8
2.5°	751.3
5°	737.1
7.5°	701.9
10°	647.3
12.5°	583.7
15°	523.9
17.5°	473.3
20°	429.1
22.5°	389.5
25°	349.1
27.5°	303.5
30°	249.9
32.5°	190.5
35°	133.7
37.5°	85.6
40°	49.4
42.5°	26.4
45°	12.2
47.5°	6.5
50°	2.2
52.5°	0.2
55°	0.0
57.5°	0.2
60°	0.2
62.5°	0.0
65°	0.0
67.5°	0.2
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.0
105°	0.0
107.5°	0.0
110°	0.0



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	0.0
115°	0.0
117.5°	0.0
120°	0.0
122.5°	0.0
125°	0.0
127.5°	0.0
130°	0.0
132.5°	0.0
135°	0.0
137.5°	0.0
140°	0.0
142.5°	0.0
145°	0.0
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)